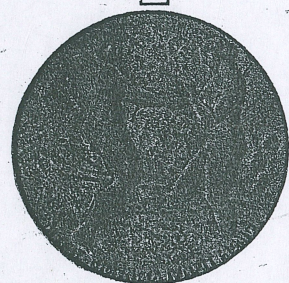


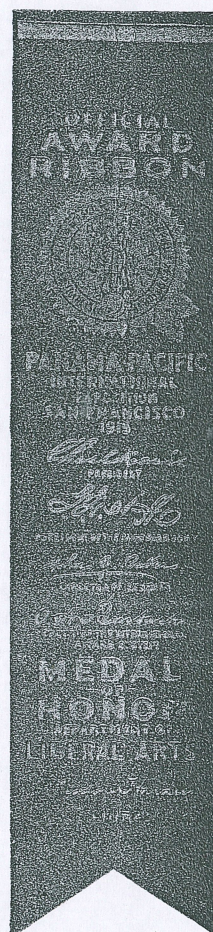
Campbell

**X-RAY and HIGH FREQUENCY
APPARATUS**

FOR
PHYSICIANS—HOSPITALS—DENTISTS
AND
INDUSTRIAL PURPOSES



**HIGHEST
AWARD**

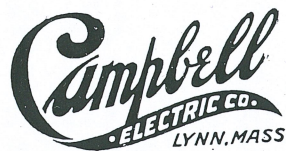


6615

**PANAMA-PACIFIC
INTERNATIONAL
EXPOSITION
SAN-FRANCISCO
1915**

MEDAL OF HONOR

Surex
CAMPBELL ELECT CO LYNN MASS U.S.A.



PRICES IN EFFECT SEPTEMBER 1, 1920

Which supersede prices listed in all catalogues
issued to date and made necessary to
PRESERVE QUALITY



LYNN, Mass.

"The Plant That Serves You"

1920

CAMPBELL ELECTRIC COMPANY
LYNN, MASSACHUSETTS



ALPHABETICAL LIST

Developing Tank, plate racks, 14 x 17	2.50	Morse Moist Pads (set)	75
Developer, Eastman X-ray, $\frac{1}{2}$ dozen packages (each makes 12 oz.)	2.50	Non-Vacuum Electrodes, any kind, each	10.00
Fixing Powder (makes 64 oz.)	.90	Envelopes (for filing plates) see Plate Containers	7.50
Hard Rubber Fixing Box	.25	Eustachian Tube Inflator	
Graduate, 8 ounces	18.50	2100. Exposure Holders for Dupli-Tized Films, 5 x 7 each	50
Graduate, 16 ounces	.55	2101. Exposure Holders for Dupli-Tized Films, 6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ each	08
Drying Rack	.75	2102. Exposure Holders for Dupli-Tized Films, 8 x 10 each	10
Mortar and Pestle	2.50	2103. Exposure Holders for Dupli-Tized Films, 8 x 12 each	10
Ruby Lamp and Illuminator, 7" x 9" Ruby—5" x 8" White	60	2104. Exposure Holders for Dupli-Tized Films, 10 x 14 each	11
Balance Scales	12.00	2105. Exposure Holders for Dupli-Tized Films, 11 x 17 each	12
Thermometer Stirring Rod	5.00	Films, Dental.	
Interval Timer (For Timing Development)	1.00	1105. 1 $\frac{1}{4}$ " x 1 $\frac{3}{4}$ " per dozen	50
Trays, 8 x 10	8.00	1106. 1 $\frac{1}{4}$ " x 2 $\frac{1}{4}$ " per dozen	50
	1.50	1107. 3 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ "	50



ALPHABETICAL LIST

25 Coolidge Tube Filament Transformer with Control, A. C. (Specify Voltage) \$85.00
45 Coolidge Tube Ammeter for above Transformer 30.00

Coolidge Units—Outfits.

Clinical Coil, Cabinet Type, Mahogany finish, A. C., 50 to 60 Cycle 680.00
(Will operate either 10 Milliamperes or 30 Milliamperes Tube with 3, 4 and 5" Gap)

Tube-stand, Counterweighted Stereoscopic 190.00
Foot Switch, with Cable and Plug 30.00
Tube-shield, Lead Glass 25.00

Coolidge Radiator Bedside Tube 125.00
Outfit Complete 1050.00

Extra for Automatic Time Controller 60.00
Extra for use on 110 V. D. C., 10 Milliamperes 150.00

Bedside Coil, Clinette Portable Type, 0 to 30 Milliamperes, 3" to 5" Spark Gap, Rheostat Control (Single Unit), A. C., 110 Volt 540.00
Separate Auto Transformer Control for Portable Coil (Double Unit) 100.00

Tube Holder, Adjustable Bracket Type 60.00
Tube-shield, Lead Glass 25.00
Coolidge Radiator Bedside Tube 125.00

Outfit Complete (Single Unit) 850.00
(Double Unit) 750.00

Extra for Stereoscopic Tube Holder (Catalog No. 2072) 35.00
Extra for Automatic Time Controller 60.00
Extra for use on 110 V. D. C., 10 Milliamperes 150.00

Dental-Coil, A. C., 50 to 60 Cycle, Wood Cabinet, Mahogany Finish 600.00
Dental-Coil, A. C., 50 to 60 Cycle, Metal Cabinet, Mahogany Finish 600.00

Tube Holder (Adjustable Bracket Type) 60.00
Foot Switch, with Cable and Plug 30.00
Tube-shield, Lead Glass 35.00

Coolidge Radiator Dental Tube 125.00
Outfit Complete 850.00

Extra for Stereoscopic Tube Holder (Catalog No. 2071) 35.00
Extra for Automatic Time Controller 60.00
Extra for use on 110 V. D. C. 100.00

Coolidge Tube Reel 8.00
Coolidge Tube Reel, with Trolley Wheels 10.00
Control Table for No. 12 SureX, instead of switchboard attached, difference extra 200.00

Cords

Connecting Cord, with Plugs 3.00
Heavy Cable, with Hook 2.00
Light Cable, with Hook 1.50

Cantury Cords (pair) 1.50
Bifurcated Cord 1.50
Treatment Chair Cord 1.50

Cord Reels. (See Reels.) 1.50

Dark Room Supplies

Developing Tank, stone 75.00
Developing Tank, plate racks, each, 5 x 7 2.00

Developing Tank, plate racks, each, 6½ x 8½ 2.00
Developing Tank, plate racks, each, 10 x 10 2.00
Developing Tank, plate racks, each, 10 x 12 2.00

Developing Tank, plate racks, each, 11 x 14 2.50
Developing Tank, plate racks, each, 14 x 17 2.50
Developer, Eastman X-ray, ½ dozen packages (each makes 12 oz.) 2.50

Fixing Powder (makes 64 oz.)90
Hard Rubber Fixing Box25
Graduate, 8 ounces 18.50

Graduate, 16 ounces55
Drying Rack75
Mortar and Pestle 2.50

Ruby Lamp and Illuminator, 7" x 9" Ruby—5" x 8" White 12.00
Balance Scales 5.00
Thermometer Stirring Rod 1.00

Interval Timer (For Timing Development) 8.00
Trays, 8 x 10 1.50



ALPHABETICAL LIST

Dark Room Supplies

Trays, 10 x 12 \$3.
Trays, 11 x 14 4.
Trays, 14 x 17 6.
Wash Box to hold 14 x 17 Plates 12.
(See Films and Plates.)

Dental Units, see Coolidge Units 45.
Developing Cabinet (Portable Dark Room) 50.
Developing Cabinet, with Trays, Films and Chemicals 1.
Developing Frame for Eastman Dupli-Tized Films, each 1.
Developing Tanks, Developer, etc. (See Dark Room Supplies.)

Diagnostic Lamp in holder 2.
Diagnostic Lamp Bulb4
Dosage Indicator, Grover's X-ray 3.
Drying Rack 3.
Dupli-Tized Films, Eastman, see Films

Electrodes. (Glass Vacuum.) 10.0
Plain Electrodes (set with handle) 1.5
Surface Electrode 1.5
Vaginal Electrode 1.5
Rectal Electrode 1.5
Urethral Electrode 1.5
Nasal Electrode 1.5
Throat Electrode 1.5
Electrode Handle 1.5
Blackman Hand Electrode 2.0
Dental Electrodes (set with handle) 12.00
Dental Surface Electrode 1.75
Dental Cavity or Pulp Tester 1.75
Dental Gum 1.75
Dental Pyorrhea 1.75
Dental Cataphoric 1.75
Dental Handle, with Cord 3.50
Insulated and Miscellaneous Electrodes

Insulated Vaginal 2.50
Insulated Rectal 2.00
Insulated Urethral 2.00
Insulated Nasal 2.00
Insulated Throat 2.00
Insulated Ear 2.00
Goitre Electrode 2.50
Single Eye Electrode 1.50
Double Eye Electrode 2.00
Cataphoric Electrode 4.00
Condenser 4.00
Block Tin Electrode 4.00
Treatment Chair, Vacuum Electrode, each75
Treatment Chair, Hand Electrode, each75
Fulguration Electrode Handle, with 2 Electrodes (Extra Electrode 25 cents) 1.00
Moist Electrode, large 3.50
Moist Electrode, small 3.00
Metal Hand Electrode (pair) 2.50
Morse Moist Pads (set) 2.50
Non-Vacuum Electrodes, any kind, each 10.00
Envelopes (for filing plates) see Plate Containers

Eustrachian Tube Inhalator 7.50
Exposure Holders for Dupli-Tized Films, 5 x 7 each 50
Exposure Holders for Dupli-Tized Films, 6½ x 8½ each08
Exposure Holders for Dupli-Tized Films, 8 x 10 each10
Exposure Holders for Dupli-Tized Films, 10 x 12 each15
Exposure Holders for Dupli-Tized Films, 11 x 14 each15
Exposure Holders for Dupli-Tized Films, 14 x 17 each20

Films, Dental. 11.05
11 x 14, per dozen 11.06
1½ x 2½, per dozen 11.07

11 x 14, per dozen 11.05
1½ x 2½, per dozen 11.06
1½ x 2½, per dozen 11.07

Attachment, Motor Drive, Auto Control	2200.00
Clinix Tube-tilt Table, No. 6 Tube-stand, 11 x 14 Fluoroscope Screen, Automatic Screen Attachment, Motor Drive, Auto Control, complete.	2500.00
Clinix Tube Tilt Table without Stand, High Tension Transformer or Control, with 11 x 14 Screen	1650.00
Clinix Tube Tilt Table without Stand, Motor, High Tension Transformer or Control, with 11 x 14 Screen	1550.00
Clinix Tube Stand Transformer, for No. 6 Tube Stand	450.00
Lamps, see Dark Room Supplies.	
Thermometer Stirring Rod	1.00
Time Controller	60.00



ALPHABETICAL LIST

Films, Eastman Dupli-Tized.	
Size 5" x 7" with envelopes, per doz.	\$1.25
Size 6 1/2" x 8 1/2" with envelopes, per doz.	2.00
Size 8" x 10" with envelopes, per doz.	2.85
Size 10" x 12" with envelopes, per doz.	4.50
Size 11" x 14" with envelopes, per doz.	5.55
Size 14" x 17" with envelopes, per doz.	8.75
See price list Exposure Holders (for use with films)	
Film Chest, Dental Lead	12.00
Film Clamps, for developing, per dozen	2.50
Film Holders, for Dental Radiography, each	.75
Film Holders, Exposure for Dupli-Tized Films, see Exposure Holders	
Film Illuminator, Dental	7.50
Film Mounts, cardboard, per hundred	4.50
Film Mounts, transparent, per hundred	5.50
Filters, aluminum	
1 mm.	1.00
2 mm.	1.50
3 mm.	2.00
Fixing Powder (make 64 oz.)	.25
Fluoroscope	
5 x 7, Folding	35.00
8 x 10, not Folding	50.00
Fluoroscope Screens	
8 x 10	35.00
10 x 12	52.00
11 x 14	72.00
14 x 17	102.00
Fluoroscope Screen mounted in Oak Frame, with lead glass.	
8 x 10	52.00
10 x 12	75.00
11 x 14	95.00
14 x 17	135.00
Fluoroscopy—Vertical, Horizontal, Angular. (See Tables.)	
Foil. Lead, for X-ray Protection in Treatment, per lb.	.50
Foot Switch, heavy capacity, double contact, to control lamp	45.00
Foot Switch, heavy capacity, single contact	30.00
Gloves, opaque protective (plain)	12.00
Gloves, opaque protective (gauntlet)	15.00
Graduate, 8 ounces	.55
Graduate, 1 1/2 ounces	.75
Grover's X-ray Dose Indicator	3.00
Hard Rubber Fixing Box	18.50
High Tension Transformer for No. 6 Tube Stand with Clinix Holders, Exposure for Dupli-Tized Films, see Exposure Holders	450.00
Illuminator, Negative (with Nitrogen Lamps and Dimmers)	60.00
Illuminator and Ruby Lamp combined, for up to 8 x 10 Plates	12.00
Indicator, X-ray Dose, Grover's	3.00
Instruments, Switchboard (set) with handle	35.00
Mouth Lamp	4.50
Antrum Lamp	4.50
Root Canal Drier	4.50
Gutta-Percha Excavator	4.50
Cautery	4.50
Canal Drier Needles, Fine	1.50
Canal Drier Needles, Medium	1.50
Canal Drier Needles, Coarse	1.50
Wax Spatula	3.25
Insulators, wall (Strain, for Trolley System), with Turnbuckle	4.50
Insulator 2 foot H. T. for Connecting Rooms	7.50

1579 Vacuum Cups, small	1.50
1580 Vacuum Cups, medium	1.50
1581 Vacuum Cups, large	1.50
1035 View Box (Plate Illuminator), Size 17" x 17" with Nitrogen Lamps and Dimmer	60.00
1068 Wall Board	3.00
1067 Wall Insulator (Strain) without Turnbuckle	4.00
1132 Wash Box to hold 14 x 17 Plates	12.00
1070 Wire for Trolley System, per ft.	.05
2098 X-ray Dose Indicator, Grover's	3.00



ALPHABETICAL LIST

Intensifying Screens (Single).	
5 x 7	\$10.00
8 x 10	20.00
10 x 12	30.00
11 x 14	40.00
14 x 17	60.00
Intensifying Screens (Double), Combination, for use with Dupli-Tized Films.	
5 x 7 (The pair)	15.00
8 x 10	32.50
10 x 12	50.00
11 x 14	65.00
14 x 17	100.00
(For Cassette prices, see Catalog Numbers 1053 to 1057, inclusive.)	
Intensifying Screens (Single), with Cassettes	
5 x 7	22.00
8 x 10	35.00
10 x 12	48.50
11 x 14	62.00
14 x 17	84.00
Interval Timer	8.00
Lead Foil. For Protection in X-ray Treatment, per lb.	.50
Lead Glass. Protective, Regular Plate Sizes, per square inch	.10
1090 Lead Protective Rubber Apron	15.00
1091 Lead Protective Gloves (plain)	12.00
1092 Lead Protective Gloves (gauntlet)	15.00
1012 Lead Protective Screen, Hinged to Cabinet of SureX Transformer	90.00
1011 Lead Protective Screen, separate	90.00
1150 Manual, U. S. Army	4.00
1008 Millimeter for SureX, 8-inch diameter, 0-15—0-150M/A.	60.00
1529 Millimeter with Bracket, for H. F. current	35.00
1544 Morse Sine Wave Generator	300.00
1555 Morse Moist Electrodes (set)	10.00
1123 Mortar and Pestle	1.00
1107 Mounts for Dental Films, Cardboard, double film per 100	5.50
1108 Mounts for Dental Films, Cardboard, single film per 100	4.50
1582 Nebulizer	3.00
Negative preservers, see Plate Containers	
Overhead Trolley System. (See Aerial System.)	
1556 Ozone Generator	20.00
1134 Pastilles, Sabouraud, 25 cents each	.25
2063 Penetrometer (Benoist)	4.00
1587 Photographic Supplies. (See Dark Room Supplies.)	
Pilot Lamp Bulb	.50
Plates, X-ray	
5 x 7 Seed X-ray plates, with envelopes, per dozen	1.70
6 3/4 x 8 3/4 Seed X-ray plates, with envelopes, per dozen	2.50
8 x 10 Seed X-ray plates, with envelopes, per dozen	3.60
10 x 12 Seed X-ray plates, with envelopes, per dozen	6.10
11 x 14 Seed X-ray plates, with envelopes, per dozen	8.50
14 x 17 Seed X-ray plates, with envelopes, per dozen	13.50
5 x 7 Seed X-ray plates, without envelopes, per dozen	1.40
6 3/4 x 8 3/4 Seed X-ray plates, without envelopes, per dozen	2.10
8 x 10 Seed X-ray plates, without envelopes, per dozen	3.00
10 x 12 Seed X-ray plates, without envelopes, per dozen	5.10
11 x 14 Seed X-ray plates, without envelopes, per dozen	7.20
14 x 17 Seed X-ray plates, without envelopes, per dozen	11.20
Plate Containers. (Negative Preservers) for Filing.	
5 x 7 per 100	35
6 3/4 x 8 3/4 per 100	60
8 x 10 per 100	60
10 x 12 per 100	1.30
11 x 14 per 100	1.80
14 x 17 per 100	2.20



ALPHABETICAL LIST

Plate Box, lead lined	\$45.00
Plate Changing Tunnel, 10 x 10	14.50
Plate Changing Tunnel, 12 x 12	19.50
Plate Changing Tunnel, 14 x 14	24.00
Plate Changing Tunnel, 17 x 17	30.00
Plate Marker	6.00
Powder Blower	3.00
Protective Screen, hinged to cabinet of SureX Transformer	90.00
Protective Screen, separate	90.00
Pump, compressed air and vacuum	150.00
Radiometer, Hampson	18.00
Reels	
6 feet Cord Reel	3.00
9 feet Cord Reel	4.00
9 feet Cord Reel, with Wheels	6.00
Coolidge Tube Reel	8.00
Coolidge Tube Reel, with Wheels	10.00
Rebuild X-ray Tube, 5", 6" or 7"	35.00
Re-exhaust X-ray Tubes, 5", 6" or 7"	10.00
Rotary Converter with step-up transformer, 6 ampere, 110 Volt D. C.	150.00
Rotary Converter without step-up transformer, 6 ampere, 110 Volt D. C.	100.00
Rotary Converter with step-up transformer, 12 ampere, 110 Volt D. C.	200.00
Rotary Converter without step-up transformer, 12 ampere, 110 Volt D. C.	150.00
Rotating Spark Gap Plate	10.00
Rubber, X-ray Protective, per sq. ft.	3.00
Rubber Apron, Lead Protective	15.00
Ruby Lamp and Illuminator, CAMPBELL combination, for up to 8 x 10 plates.	12.00
Sabouraud Pastilles, each25
Scales (see Dark Room Supplies).	
Screens, Fluoroscopic (see Fluoroscopic screens).	
Screens, Intensifying (see Intensifying screens).	
Spark Gap Tips, for E Coil (each)	2.00
Shut-off for bottles	2.50
Sinus Head Block	6.00
Stands. (See Tube-stands.)	
Stereoscope, with Nitrogen Lamps and Dimmers	175.00
"SureX" Interrupterless Transformer	
No. 12 A. C., 220V., 60 Cycle (or 110 Volt, if ordered) Switchboard attached 1650.00	
No. 12 D. C., 220V., (or 110 Volt, if ordered) Switchboard attached	1950.00
No. 2 A. C., 220 V., 60 Cycle, Switchboard attached, (Army Type)	1550.00
Separate Control Table instead Switchboard attached, difference extra	200.00
Switch, High Tension Aerial	40.00
Switchboard Instruments. (See Instruments.)	
Tables—"Clinix"—Self-Excited—Tube Tilt—Motor Driven—Auto Control.	
Clinix Tube-tilt Table without Stand, with 11 x 14 Screen, Automatic Screen Attachment, Motor Drive, Auto Control	2200.00
Clinix Tube-tilt Table, No. 6 Tube-stand, 11 x 14 Fluoroscope Screen, Automatic Screen Attachment, Motor Drive, Auto Control, complete	2500.00
Clinix Tube Tilt Table without Stand, High Tension Transformer or Control, with 11 x 14 Screen	1650.00
Clinix Tube Tilt Table without Stand, Motor, High Tension Transformer or Control, with 11 x 14 Screen	1550.00
Clinix Tube Stand Transformer, for No. 6 Tube Stand	450.00
Pancks, see Dark Room Supplies.	
Thermometer Stirring Rod	1.00
Time Controller	60.00



ALPHABETICAL LIST

1010 Time Controller, with switch mounted on separate panel	\$75.00
2081 Time Controller for Coolidge Bedside Unit Cabinet Type	60.00
2082 Time Controller for Coolidge Bedside Unit Portable Type	60.00
2083 Time Controller for Coolidge Dental Unit	60.00
2093 Transformer, Extra High Tension, for No. 6 Tube Stand, with Clinix Transformer—Coolidge, see Coolidge Transformers and Units.	450.00
Transformers—Interrupterless, see SureX Transformers.	
Transformers for Clinix, see Tables Clinix	
1128 Trays, 8 x 10	1.50
1129 Trays, 10 x 12	3.00
1130 Trays, 11 x 14	4.00
1131 Trays, 14 x 17	6.00
1007 Treatment Chair (Auto-Condensation), with Leg Section (Head Section \$15 extra)	85.00
Trolley System, see Aerial System.	
1076 Trolley Reels	3.00
1071 Trolley Reels, with Wheels, 9 feet	6.00
1070 Trolley Wire, per foot05
Tubes	
1022 Tube, Coolidge, fine focus, 7"	125.00
1023 Tube, Coolidge, medium focus, 7"	125.00
1024 Tube, Coolidge, broad focus, 7"	125.00
1029 Tube, Coolidge Dental, Radiator Type	125.00
1270 Tube, Coolidge Bedside, Radiator Type (Indicate whether 10 or 30 M/A).	125.00
1027 Tube, 6" Tungsten Target (High-Frequency)	45.00
1028 Tube, 7" Heavy Tungsten Target (Transformer)	50.00
Tube Rebuild, using old Tungsten Target 5", 6" or 7"	35.00
Tube, Re-exhaust 5", 6" or 7"	10.00
Tube-rack	
1084 1 Unit	3.50
1085 2 Unit	5.00
1086 4 Unit	7.50
1087 6 Unit	10.50
2011 Tube-shield, leaded rubber 5"	15.00
1523 Tube-shield, leaded rubber 6"	15.00
2010 Tube-shield, for Coolidge Dental Tube, Lead Glass	35.00
1260 Tube-shield, for Coolidge Bedside Tube, Lead Glass	25.00
Tube-stands	
1517 Wood, portable	6.00
1516 Wood Floor Stand	15.00
2007 Coolidge Dental Tube Holder (Bracket Type) (Regular)	60.00
2106 Coolidge Tube Holder, Dental Engine Type, Long Range	110.00
2071 Coolidge Dental Tube Holder, Bracket Type (Stereoscopic)	95.00
1594 Coolidge Bedside Portable Tube Holder (Bracket Type) (Regular)	60.00
2072 Coolidge Bedside Portable Tube Holder (Bracket Type) (Stereoscopic)	95.00
1591 Coolidge Bedside, Counterweighted, Stereoscopic	190.00
1515 No. 12 Tube Stand	180.00
1013 No. 6 Stereoscopic Tube Stand with Diaphragm	300.00
(Centering Rod, Catalog No. 2097, \$7.50—See price list CONES).	
Units. (See Coolidge Units.)	
1579 Vacuum Cups, small	1.50
1580 Vacuum Cups, medium	1.50
1581 Vacuum Cups, large	1.50
1035 View Box (Plate Illuminator), Size 17" x 17" with Nitrogen Lamps and Dimmer.	60.00
1068 Wall Board	3.00
1067 Wall Insulator (Strain) without Turnbuckle	3.00
1132 Wash Box to hold 14 x 17 Plates	4.00
1070 Wire for Trolley System, per ft.	12.00
2098 X-ray Dose Indicator, Grover's05



ALPHABETICAL LIST

Films, Eastman Dupli-Tized.	
Size 5" x 7" with envelopes, per doz.	\$1.25
Size 6 1/2" x 8 1/2" with envelopes, per doz.	2.00
Size 8" x 10" with envelopes, per doz.	2.85
Size 10" x 12" with envelopes, per doz.	4.50
Size 11" x 14" with envelopes, per doz.	5.55



ALPHABETICAL LIST

Intensifying Screens (Single).	
1048 5 x 7	\$10.00
1049 8 x 10	20.00
1050 10 x 12	30.00
1051 11 x 14	40.00
1052 14 x 17	60.00

Insulated and Miscellaneous Electrodes		
Insulated Vaginal	2.50	
Insulated Rectal	2.00	
Insulated Urethral	2.00	
Insulated Nasal	2.00	
Insulated Throat	2.00	
Insulated Ear	2.00	
Goitre Electrode	2.50	
Single Eye Electrode	1.50	
Double Eye Electrode	2.50	
Cataphoric Electrode	5.00	



NUMERICAL PRICE LIST

September 1, 1920

"SureX" Interruptless Transformer		Price
No. 12 A. C., 220V., 60 Cycle (or 110V., if ordered) Switchboard attached	\$1650.00	
No. 12 D. C., 220 V., (or 110V., if ordered) Switchboard attached	1950.00	
No. 2 A. C., (Army Type) Switchboard attached	1550.00	
Separate Control Table for No. 12 SureX, instead of Switchboard attached,		
Difference Extra	200.00	
Rubber, X-ray Protective, per sq. ft.	3.00	
Auto Condensation Chair (with Leg Section) (Head Section \$15 extra)	85.00	
Milammeter for SureX, 8-inch diameter, 0-15—0-50 M/A.	60.00	
Time Controller	60.00	
Time Controller, with switch mounted on separate panel	75.00	
Protective Screen, separate	90.00	
Protective Screen, hinged to cabinet of SureX Transformer	90.00	
No. 6 Stereoscopic Tube-stand, with diaphragm	300.00	
(Centering Rod, Catalog No. 2097, \$7.50—see price list CONES)		
Cones		
No. 6A	14.00	
No. 6B	17.00	
No. 6C	14.00	
No. 6D	14.00	
No. 5A	14.00	
No. 5B	17.00	
Coolidge Tubes		
Fine Focus, 7"	125.00	
Medium Focus, 7"	125.00	
Broad Focus, 7"	125.00	
Coolidge Tube Filament Transformer, with Control, A. C. (specify voltage)	85.00	
Tube, 6" Tungsten Target (High-Frequency)	45.00	
Tube, 7" Heavy Tungsten Target (Transformer)	50.00	
Dental Tube, Radiator Type	125.00	
Stereoscope with Nitrogen Lamps and Dimmers	175.00	
Illuminator, Negative (with Nitrogen Lamps and Dimmers)	60.00	
Foot Switch, heavy capacity, double contact, to control lamp	45.00	
Foot Switch, heavy capacity, single contact, with Cable and Plug	30.00	
Fluoroscope		
8 x 10, not Folding	50.00	
Fluoroscope Screens		
8 x 10	35.00	
10 x 12	52.00	
11 x 14	72.00	
14 x 17	102.00	
Fluoroscope Screen mounted in Oak Frame, with Lead Glass		
8 x 10	52.00	
10 x 12	65.00	
11 x 14	95.00	
14 x 17	135.00	
Fluoroscopy, Vertical, Horizontal, Angular (see Tables).		
Intensifying Screens (Single).		
5 x 7	10.00	
8 x 10	20.00	
10 x 12	30.00	
11 x 14	40.00	
14 x 17	60.00	

2015	Dental Electrodes (set with handle)	12.00
2016	Dental Surface Electrode	1.75
2017	Dental Cavity or Pulp Tester	1.75
2018	Dental Gum	1.75
2019	Dental Pyorrhea	1.75
2020	Dental Cataphoric	1.75
2021	Dental Handle, with Cord	3.50
2022	Instruments, Switchboard (set) with Handle	35.00
2023	Mouth Lamp	4.50
2024	Antrum Lamp	4.50



NUMERICAL LIST

1053	Cassettes 5 x 7 (for Intensifying Screens)	\$ 12.00
1054	Cassettes 8 x 10 (for Intensifying Screens)	15.00
1055	Cassettes 10 x 12 (for Intensifying Screens)	18.50
1056	Cassettes 11 x 14 (for Intensifying Screens)	22.00
1057	Cassettes 14 x 17 (for Intensifying Screens)	24.00
Intensifying Screens (Single), with Cassettes		
1058	5 x 7	22.00
1059	8 x 10	35.00
1060	10 x 12	48.50
1061	11 x 14	62.00
1062	14 x 17	84.00
1063	Plate Changing Tunnels, 10 x 10	14.50
1064	Plate Changing Tunnels, 12 x 12	19.50
1065	Plate Changing Tunnels, 14 x 14	24.00
1066	Plate Changing Tunnels, 17 x 17	30.00
Individual Parts		
1067	Wall Insulator (Strain) without Turnbuckle	4.00
1068	Wall Board	3.00
1069	Wall Insulator (Strain, for Trolley System) with Turnbuckle	4.50
1070	Trolley Wire, per foot	.05
1071	9 feet Cord Reel, with Wheels	6.00
1072	Trolley Wheel	3.00
1073	Coolidge Tube Reel, with Trolley Wheels	10.00
1074	2 foot H. T. Insulator Tubes for Connecting Rooms	7.50
1075	Aerial H. T. Switch, complete	40.00
1076	Aerial System (standard)	
Consisting of 2 Wall Boards, 3 Wall Insulators, with Turnbuckles, 3 Wall Insulators, without Turnbuckles, 80 feet Trolley Wire, 1 Trolley Reel, with Wheels, 1 Coolidge Tube Reel		
1077	9 feet Cord Reel	50.00
1078	Coolidge Tube Reel	4.00
Filters, aluminum		
1079	1 mm.	1.00
1080	2 mm.	1.50
1081	3 mm.	2.00
1082	Sinus Head Block	6.00
1083	Plate Box, lead lined	45.00
Tube-rack		
1084	1 Unit	3.50
1085	2 Unit	5.00
1086	4 Unit	7.50
1087	6 Unit	10.50
1088	Plate Marker	6.00
1089	Radiometer, Hampson	18.00
1090	Apron, X-ray Protective	15.00
1091	Gloves, opaque protective (plain)	12.00
1092	Gloves, opaque protective (gauntlet)	15.00
Plates, X-ray		
1093	5 x 7 Seed X-ray Plates, with envelopes, per dozen	1.70
1094	6 1/2 x 8 1/2 Seed X-ray Plates, with envelopes, per dozen	2.55
1095	8 x 10 Seed X-ray Plates, with envelopes, per dozen	3.60
1096	10 x 12 Seed X-ray Plates, with envelopes, per dozen	6.10
1097	11 x 14 Seed X-ray Plates, with envelopes, per dozen	8.50
1098	14 x 17 Seed X-ray Plates, with envelopes, per dozen	13.50
1099	5 x 7 Seed X-ray Plates, without envelopes, per dozen	1.40
1100	6 1/2 x 8 1/2 Seed X-ray Plates, without envelopes, per dozen	2.10
1101	8 x 10 Seed X-ray Plates, without envelopes, per dozen	3.00
1102	10 x 12 Seed X-ray Plates, without envelopes, per dozen	5.15
1103	11 x 14 Seed X-ray Plates, without envelopes, per dozen	7.25
1104	14 x 17 Seed X-ray Plates, without envelopes, per dozen	11.25
Films		
1105	4" x 1 3/8", per dozen	.50
1106	1 1/8" x 2 1/8", per dozen	.85
1107	2 1/4" x 3", per dozen	1.75
1108	Film Mounts, cardboard, per hundred	4.50
1109	Film Mounts, transparent, per hundred	5.50



NUMERICAL LIST

Dark Room Supplies	
Developing Tank, stone	\$ 75.00
Developing Tank, plate racks, each, 5 x 7	2.00
Developing Tank, plate racks, each, $6\frac{1}{2}$ x $8\frac{1}{2}$	2.00
Developing Tank, plate racks, each, 8 x 10	2.00
Developing Tank, plate racks, each, 10 x 12	2.00
Developing Tank, plate racks, each, 11 x 14	2.50
Developing Tank, plate racks, each, 14 x 17	2.50
Developer, Eastman X-ray, $\frac{1}{2}$ dozen packages (each package makes 12 oz.)	.90
Fixing Powder (makes 64 oz.)	.25
Hard Rubber Fixing Box	18.50
Graduate, 8 ounces	.55
Graduate, 16 ounces	.75
Drying Rack	3.00
Mortar and Pestle	2.50
Ruby Lamp and Illuminator, CAMPBELL combination. For up to 8 x 10 Plates	12.00
Balance Scales	5.00
Thermometer Stirring Rod	1.00
Trays, 8 x 10	1.50
Trays, 10 x 12	3.00
Trays, 11 x 14	4.00
Trays, 14 x 17	6.00
Wash Box to hold 14 x 17 Plates	12.00
Sabouraud Pastilles, each	.25
Film Clamps. For developing, per dozen	2.50
Film Holders. For dental radiography, each	.75
Army (U. S.) Manual	4.00
Dental Coil (Coolidge Dental Unit), A. C., 50 to 60 Cycle, Mahogany finish	600.00
Bedside Tube-shield, Lead Glass	25.00
Coolidge Radiator Bedside Tube	125.00
Model "T", High Frequency Coil, A. C., 50 to 60 Cycle	500.00
Model "T", High Frequency Coil, with Pump, A. C., 50 to 60 Cycle	650.00
Model "E", High Frequency Coil, A. C., 50 to 60 Cycle	300.00
Model "H", High Frequency Coil, A. C., 50 to 60 Cycle	150.00
Cabinet for Model "E" Coil or Portable Coolidge Unit	30.00
No. 12 Tube-stand	180.00
Wood Floor Stand	15.00
Wood, portable	6.00
No. 12A	10.00
No. 12B	10.00
Fluoroscope	
5 x 7, Folding	35.00
Tube-shield, leaded rubber 6"	15.00
Pump, compressed air and vacuum	150.00
Auto Condensation Pad, with Cords	20.00
Milliammeter with Bracket, for H. F. current	35.00
Electrodes	
Plain Electrodes (set)	10.00
Surface Electrodes	1.50
Vaginal Electrodes	1.50
Rectal Electrodes	1.50
Urethral Electrodes	1.50
Nasal Electrodes	1.50
Throat Electrodes	1.50
Electrode Handle	2.00
Insulated and Miscellaneous Electrodes	
Insulated Vaginal	2.50
Insulated Rectal	2.00
Insulated Urethral	2.00
Insulated Nasal	2.00
Insulated Throat	2.00
Insulated Ear	2.00
Goitre Electrode	2.50
Single Eye Electrode	1.50
Double Eye Electrode	2.50
Cataphoric Electrode	5.00



NUMERICAL PRICE LIST

September 1, 1920



NUMERICAL LIST

1548	Condenser (Localizing Surface) Electrode	\$ 5.00
1549	Block Tin Electrode, 5" x 7"	1.00
2107	Block Tin Electrode, 8" x 10"	1.50
1550	Treatment Chair, Vacuum Electrode, each	1.00
1551	Treatment Chair, Hand Electrode, each	1.50
1552	Fulguration Electrode Handle, with 2 Electrodes (Extra Electrode 25 cents)	4.50
1553	Moist Electrode, large	3.50
1554	Moist Electrode, small	3.00
1555	Metal Hand Electrode (pair)	.75
1556	Ozone Generator	20.00
1560	Rotary Converter, with step-up transformer, 6 ampere	150.00
1561	Rotary Converter, without step-up transformer, 6 ampere	100.00
1562	Rotary Converter, with step-up transformer, 12 ampere	200.00
1563	Rotary Converter, without step-up transformer, 12 ampere	150.00
1564	Morse Sine Wave Generator	300.00
1565	Morse Moist Pads (set)	10.00

Cords

1567	Connecting Cord, with Plugs	3.00
1568	Heavy Cable, with Hook	2.00
1569	Light Cable, with Hook	1.50
1570	Cautery Cords (pair)	1.50
1571	Bifurcated Cord	1.50
1572	Treatment Chair Cord	1.50
1573	Cautery, Handle and Blade	6.50
1574	Cautery, Blade only	2.00
1575	Diagnostic Lamp in holder	2.50
1576	Diagnostic Lamp Bulb	.50

Miscellaneous Parts

1577	Small Spark Gap Tips for Model E Coil (each)	2.00
1578	Rotating Spark Gap Plate	10.00
1579	Vacuum Cups, small	1.50
1580	Vacuum Cups, medium	1.50
1581	Vacuum Cups, large	1.50
1582	Nebulizer	3.00
1583	Atomizer	3.50
1584	Powder Blower	3.00
1585	Shut-off for bottles	2.50
1586	Eustachian Tube Inflator	.50
1587	Pilot Lamp Bulb	190.00
1591	Coolidge Bedside Stereoscopic, Counterweighted, Tube-Stand	
1592	Coolidge Dental Tube Holder, Adjustable Bracket Type (Regular)	60.00
1593	Coolidge Bedside Portable, Separate Auto Transformer Control, for use with No. 1592 as Double Unit	540.00
1594	Coolidge Bedside Portable Tube Holder, Adjustable Bracket Type (Regular)	100.00
2007	Coolidge Dental Tube Holder, Adjustable Bracket Type (Regular)	60.00
2010	Coolidge Dental Tube-shield, Lead Glass	35.00
2011	Tube-shield leaded rubber 5"	15.00
2012	Angle Indicator	7.00

Electrodes (Glass vacuum).

2015	Dental Electrodes (set with handle)	12.00
2016	Dental Surface Electrode	1.75
2017	Dental Cavity or Pulp Tester	1.75
2018	Dental Gum	1.75
2019	Dental Pyorrhea	1.75
2020	Dental Cataphoric	1.75
2021	Dental Handle, with Cord	3.50
2022	Instruments, Switchboard (set) with Handle	35.00
2023	Mouth Lamp	4.50
2024	Antrum Lamp	4.50



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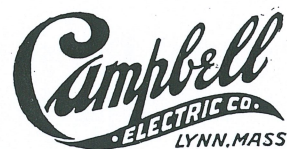
1053	Cassettes 5 x 7 (for Intensifying Screens)	\$ 12.00
1054	Cassettes 8 x 10 (for Intensifying Screens)	15.00
1055	Cassettes 10 x 12 (for Intensifying Screens)	18.50
1056	Cassettes 11 x 14 (for Intensifying Screens)	22.00
1057	Cassettes 14 x 17 (for Intensifying Screens)	24.00

NUMERICAL LIST

2025	Root Canal Drier	4.50
2026	Gutta-Percha Excavator	4.50
2027	Cautery	4.50
2028	Canal Drier Needles, Fine	1.50
2029	Canal Drier Needles, Medium	1.50
2030	Canal Drier Needles, Coarse	1.50
2031	Wax Spatula	3.25
2043	Film Chest, Dental Lead	12.00
2044	Film Illuminator, Dental	7.50
2045	Ammeter. For Coolidge Filament Transformer	30.00
2046	Developing Cabinet (Portable Dark Room)	45.00
2047	Developing Cabinet, with Trays, Films and Chemicals	50.00
Plate Containers (Negative Preservers) (for filing).		
2049	5 x 7, per 100	3.5
2050	6 1/2 x 8 1/2, per 100	.60
2051	8 x 10, per 100	.65
2052	10 x 12, per 100	1.35
2053	11 x 14, per 100	1.80
2054	14 x 17, per 100	2.25
2060	Foil, Lead, for X-ray Protection in Treatment, per lb.	.50
2061	Lead Glass Protective, Regular Plate Sizes, per sq. inch	.05
2062	Interval Timer	8.00
2063	Benoist Penetrometer	4.00
2064	Films, Eastman Dupli-Tized, Size 5" x 7" with envelopes, per dozen	1.25
2065	Films, Eastman Dupli-Tized, Size 6 1/2" x 8 1/2" with envelopes, per dozen	2.00
2066	Films, Eastman Dupli-Tized, Size 8" x 10" with envelopes, per dozen	2.85
2067	Films, Eastman Dupli-Tized, Size 10" x 12" with envelopes, per dozen	4.50
2068	Films, Eastman Dupli-Tized, Size 11" x 14" with envelopes, per dozen	5.55
2069	Films, Eastman Dupli-Tized, Size 14" x 17" with envelopes, per dozen	8.75
2071	Coolidge Dental Tube Holder, Bracket Type, (Stereoscopic)	95.00
2072	Coolidge Bedside Tube Holder, Bracket Type, (Stereoscopic)	95.00
2081	Automatic Time Controller for Coolidge Bedside Unit (Cabinet Type)	60.00
2082	Automatic Time Controller for Coolidge Bedside Unit (Portable Type)	60.00
2083	Automatic Time Controller for Coolidge Dental Unit	60.00
2084	Campbell Coolidge Clinical Unit Coil, Metal Cabinet, 3, 4 and 5" gap, 0 to 30 m/a, A.C.	680.00
2085	Developing frame for Eastman Dupli-Tized Films	1.50
2086	Clinix—Self-Excited—Tube-Tilt Table, Motor Driven, with Screen, no Stand	2200.00
2087	Clinix—Self-Excited—Tube-Tilt Table, Motor Driven, with Screen and No. 6 Stand	2500.00
2088	Intensifying Screen (Double), Combination for use with Dupli-Tized Films, 5 x 7	15.00
2089	Intensifying Screen (Double), Combination for use with Dupli-Tized Films, 8 x 10	32.50
2090	Intensifying Screen (Double), Combination for use with Dupli-Tized Films, 10 x 12	50.00
2091	Intensifying Screen (Double), Combination for use with Dupli-Tized Films, 11 x 14	65.00
2092	Intensifying Screen (Double), Combination for use with Dupli-Tized Films, 14 x 17	100.00
(For Cassette prices, see Catalog Numbers 1053 to 1057, inclusive.)		
2093	Extra High Tension Transformer, for No. 6 Stand, Sold only for Clinix	450.00
2094	Clinix Table without Stand, Transformer or Control, with Screen and Motor	1650.00
2095	Clinix Table without Stand, Motor, Transformer or Control, with Screen	1350.00
2096	Blackman Hand Electrode	5.00
2097	Centering Rod for No. 6 Tube Stand	7.50
2098	Grover's X-ray Dose Indicator	3.00
2099	Dental Coil, A. C., 50 to 60 Cy., Metal Cabinet, Mahogany Finish	600.00
2100	Exposure Holders for Dupli-Tized Film 5 x 7, ea.	15
2101	Exposure Holders for Dupli-Tized Film 6 1/2 x 8 1/2	.15
2102	Exposure Holders for Dupli-Tized Film 8 x 10	.20
2103	Exposure Holders for Dupli-Tized Film 10 x 12	.25
2104	Exposure Holders for Dupli-Tized Film 11 x 14	.25
2105	Exposure Holders for Dupli-Tized Film 14 x 17	.35
2106	Dental Tube Holder, Engine Type, Long range, Automatic	110.00
2107	Block Tin Electrode, 8" x 10"	1.50
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NUMERICAL LIST

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X-RAY APPARATUS

Medal of Honor



THE HIGHEST AWARD

PANAMA-PACIFIC INTERNATIONAL EXPOSITION

SAN FRANCISCO, CALIFORNIA, 1915

NUMERICAL LIST

NUMERICAL LIST

2025 Root Canal Drier \$ 4.50
2026 Gutta-Percha Excavator 4.50
2027 Cautery 4.50
2028 Canal Drier Needles, Fine 1.50
2029 Canal Drier Needles, Medium 1.50
2030 Canal Drier Needles, Coarse 3.25
2031 Wax Spatula 12.00

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PANAMA-PACIFIC INTERNATIONAL EXPOSITION
1915

ADMINISTRATION BUILDING

SAN FRANCISCO,
CALIFORNIA.

INTERNATIONAL
AWARD SYSTEM

December 27th, 1915.

Campbell Electric Company,
Lynn, Massachusetts.

Attention: Mr. Fred R. Campbell.

Gentlemen:

Replying to your favor of December 21st, I beg to advise you that the medals and diplomas for exhibits in the Department of Liberal Arts, in which you are classified, will hardly be ready for distribution before March 1st. As soon as prepared they will be sent directly to you.

It is impossible at this time to supply you with a list of other awards made for X-ray and High-Frequency apparatus, but I desire to repeat my former statement, that the award of Medal of Honor made to you is the highest award made in this line.

In conclusion, permit me to thank you for your expressions of satisfaction as to the management of the Exposition and good wishes for its various officials, and to say that I shall be pleased to call the attention of President Charles C. Moore to the sentiments contained in your letter.

Very truly yours,

O. H. Fernbach

Secretary of the International
Award System.

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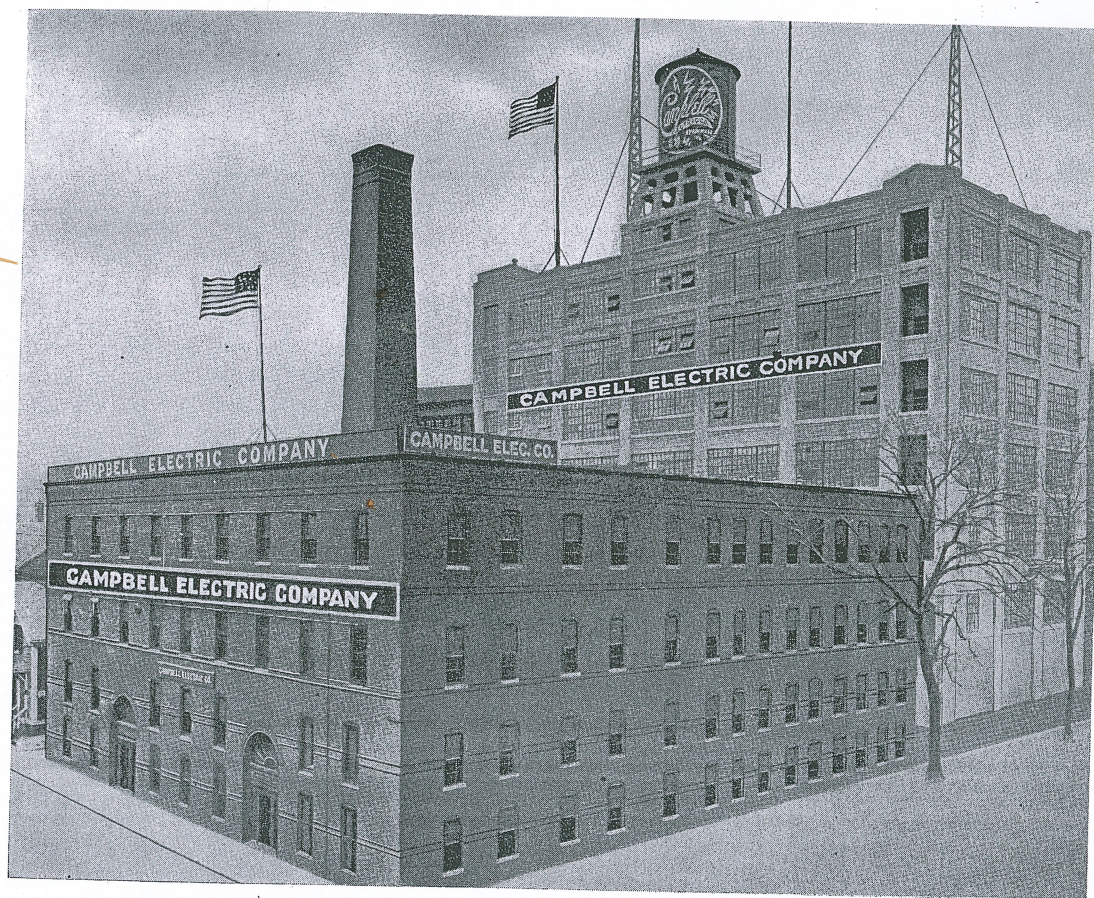
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Campbell Electric Company Factory
Lynn, Mass.



The Campbell Electric Company Factory at Lynn, Massachusetts, is conceded to be the largest plant in the world devoted to the manufacture of X-ray and High Frequency apparatus.

It is designed and constructed with especial reference to efficiency in the manufacture of X-ray and other electrical apparatus, and is as permanent and well-known in the city as its products are permanent and well known throughout the world.

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Campbell
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A FEW OF THEM WILL BE FOUND ON
THE PAGES IMMEDIATELY FOLLOWING.

Campbell
ESTABLISHED
LYNN, MASS.



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U. S. Army Debarkation Hospital, Ellis Island, New York

Equipped with Campbell *SureX* Transformer

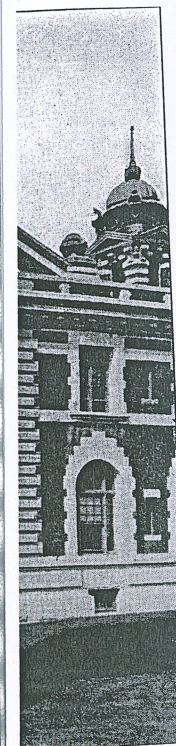
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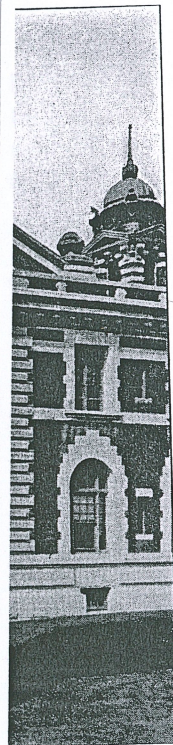
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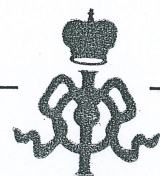
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The International Red Cross Conference is held only once in five years, and in different nations. In May, 1912, the Conference was held in America, at Washington, D. C. At this Conference the most prominent makes of X-ray apparatus of various nations competed for an award. The only manufacturers of America to receive an award was the Campbell Electric Company, of Lynn, Mass. The jury making the awards was a most impartial one, not an English-speaking nation being represented thereon.



Fonds International de la Croix-Rouge

„IMPÉRATRICE MARIE FÉODOROVNA“



Conformément aux Statuts du Fonds International institué par SA MAJESTÉ L'IMPÉRATRICE MARIE FÉODOROVNA pour des prix à décerner aux auteurs des meilleures inventions ayant pour but d'atténuer les souffrances des militaires blessés et malades, le Jury International dûment constitué et convoqué à Washington en 1912 pour adjudger les prix du Fonds susindiqué a décerné un Diplôme de mention honorable

à la maison CAMPBELL ELECTRIC COMPANY (Etats-Unis)

pour un appareil radiographique, exposé à la Neuvième Conférence Internationale de la Croix-Rouge à Washington (1912).

En foi de quoi le présent Diplôme est délivré au titulaire par le Comité Central de la Société Russe de la Croix-Rouge avec apposition de son sceau. Saint-Petersbourg, le 14/27 Novembre 1913.

Le Président du Comité Central de la Société Russe de la Croix-Rouge,

Maître de la Cour de S. M. L'EMPEREUR



Les Membres du Comité Central

*Prince N. Galitzine Prince A. Abolentay
N. N. Muzentoff Prince N. N. Kharichy*

Le Secrétaire du Comité Central

Alexander

Vu, scellé et enregistré N° 45

From the Washington Post, Friday, May 17, 1912

"The awards announced yesterday were determined upon by a jury composed of Professor Wreden, of Russia, permanent chairman; Dr. Ferriere, of the international committee, permanent reporter; Mr. Mosle, of Germany; Lieutenant Colonel Brezzi, of Italy; Dr. Silbermark, of Austria; Senor Riano, of Spain; Dr. Dedet, of France, and Dr. Yenji Inoue of Japan."



At the outbreak of the Mexican trouble, the U. S. Army Base Hospitals along the Mexican border were equipped with Campbell "Sure X" X-ray Transformers.

When Pershing's American Expeditionary Force sailed for France, it was equipped with Campbell "Sure X" X-ray Transformers which the United States Government purchased on the strength of the highly efficient service performed by this apparatus on the Mexican border.

The U. S. Ship "George Washington," the famous Army Transport which carried President Wilson to France, is equipped with a Campbell "Sure X" Transformer.

Many U. S. Naval Hospitals and Transports throughout the world are equipped with Campbell "Sure X" Transformers.

The U. S. Hospital Ship "Solace" is equipped with a Campbell "Sure X" Transformer.

Nearly two hundred Campbell "Sure X" Transformers are in use in U. S. Government Hospitals in the United States and Europe.

The American Red Cross use Campbell "Sure X" Transformers, and selected them for use in the emergency occasioned by the great Halifax disaster.

The Campbell Clinix X-Ray Plant was selected by the U. S. Public Health Service for use in St. Elizabeth's Hospital, of about 3,800 beds, Washington, D. C., after careful comparison with all other types of X-ray apparatus and displaced separate piece equipment.

The Clinix is now being installed by America's most noted Roentgenologists as the last word in radiographic and fluoroscopic apparatus.



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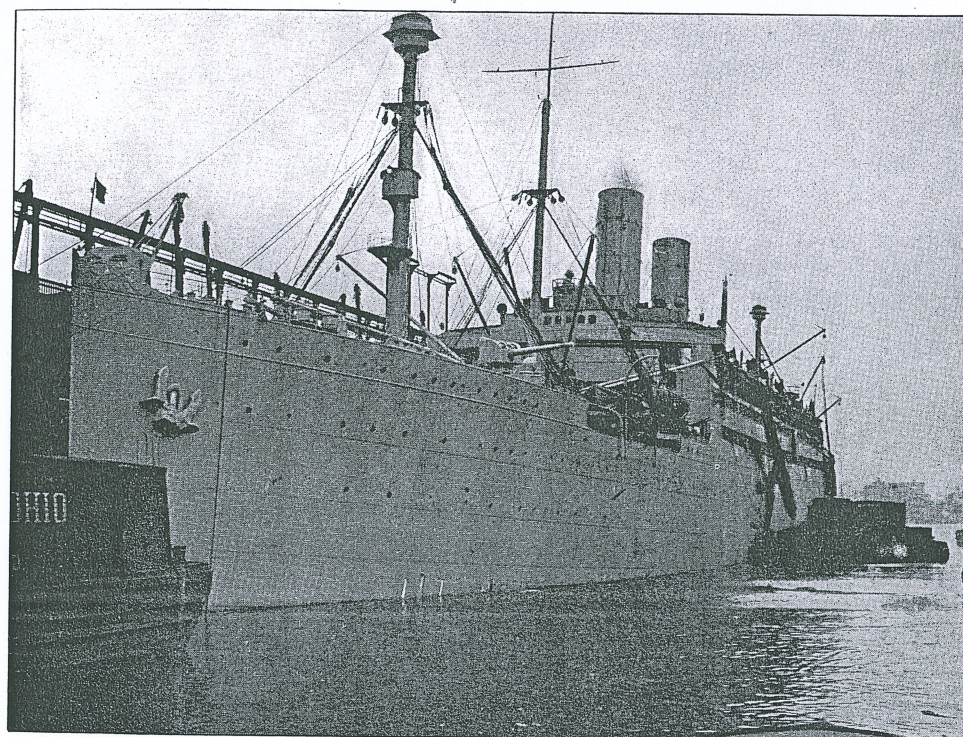
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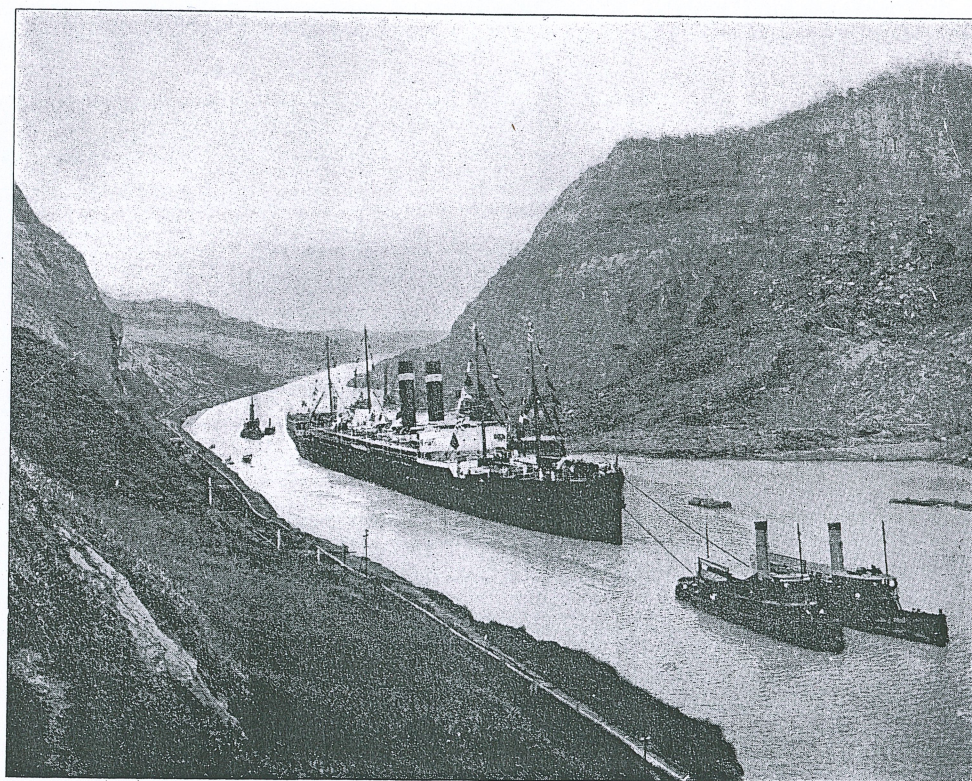


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U. S. S. "George Washington." The President's Peace Ship

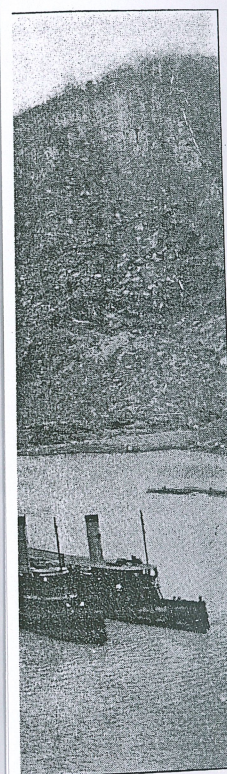
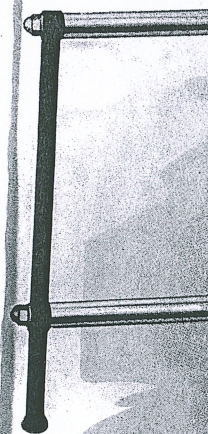
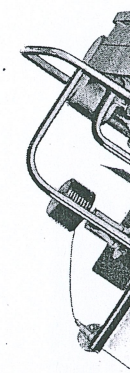
Equipped with a Campbell *Surex* Transformer

Campbell
ELECTRIC CO.
LYNN, MASS.



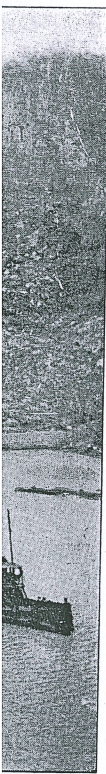
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**U. S. S. "Kroonland," passing through Culebra Cut, Panama Canal.
Equipped with a Campbell Coolidge Bedside Unit**

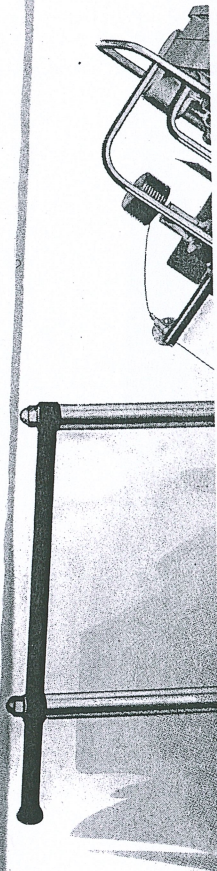


**Panama Canal.
e Unit**

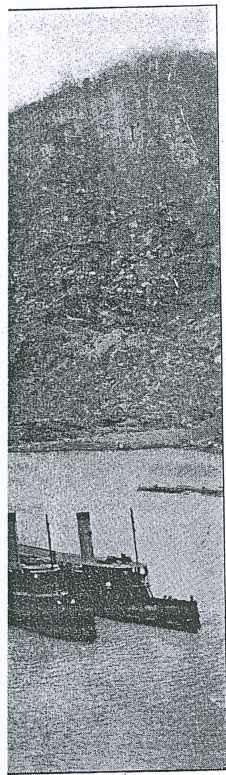
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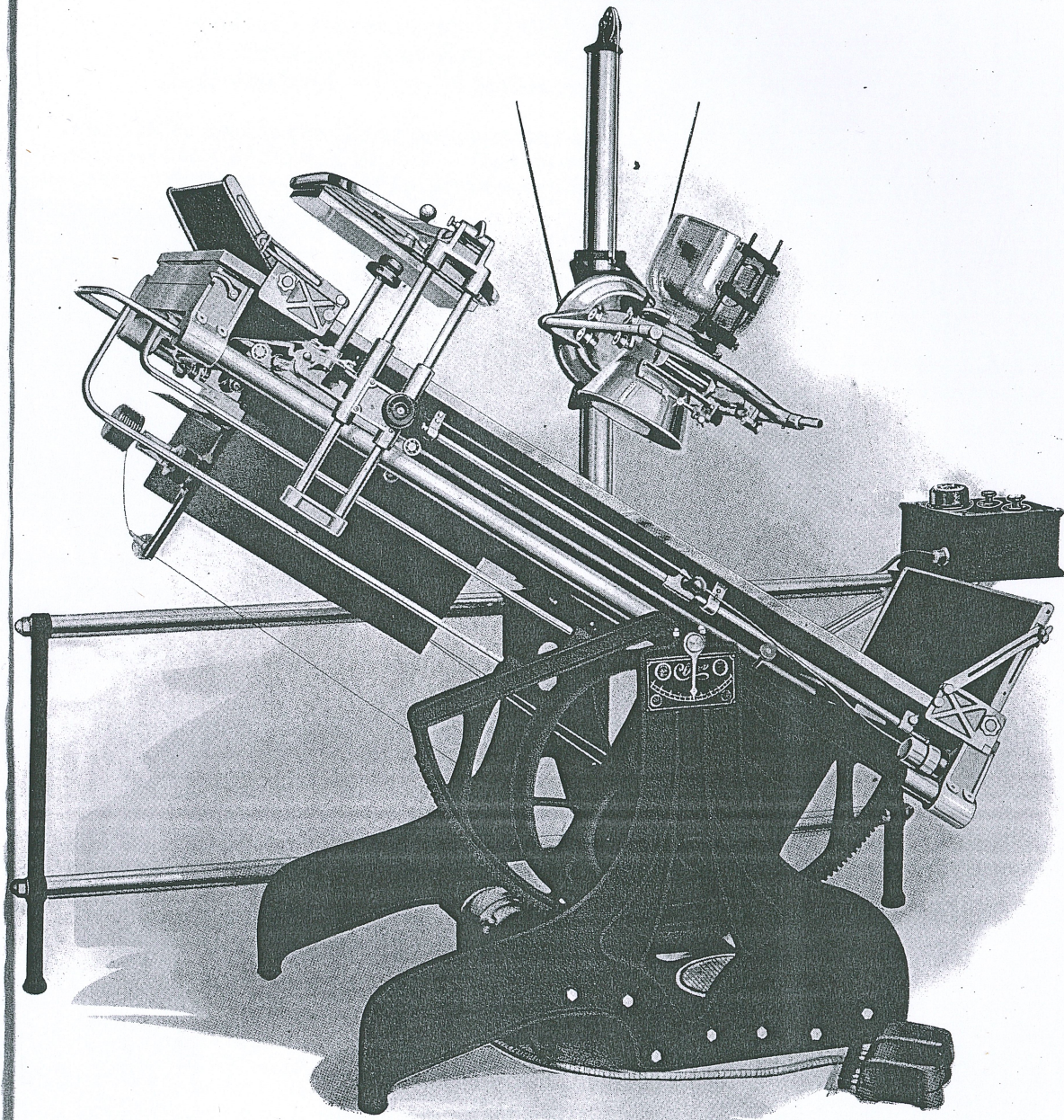
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Panama Canal.
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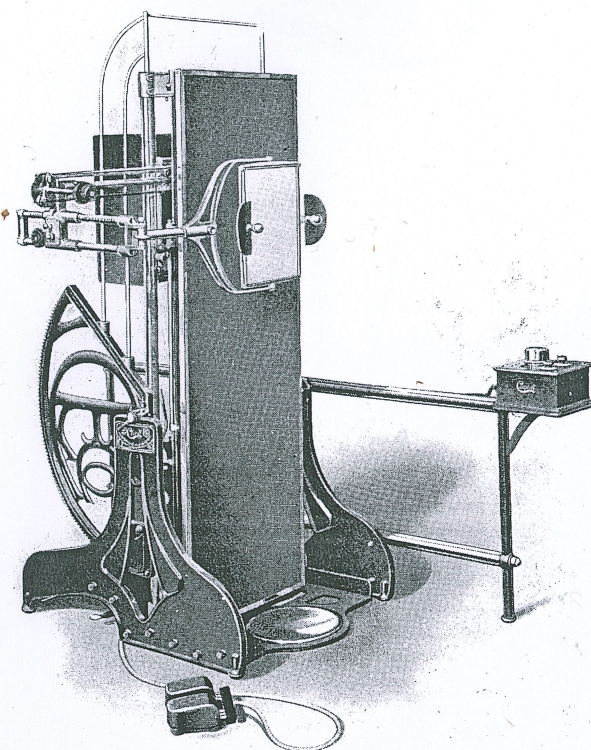
Campbell "Clinix" X-ray Plant

Tube Tilt Table: Motor Driven. Transformer attached to under side of table.
Also furnished with Transformer mounted on top of Tube Stand.
Both High Tension Transformers operated by the one Auto Transformer Control Case.
1 to 30 Milliamperes, 2 to 5-inch Spark Gap.

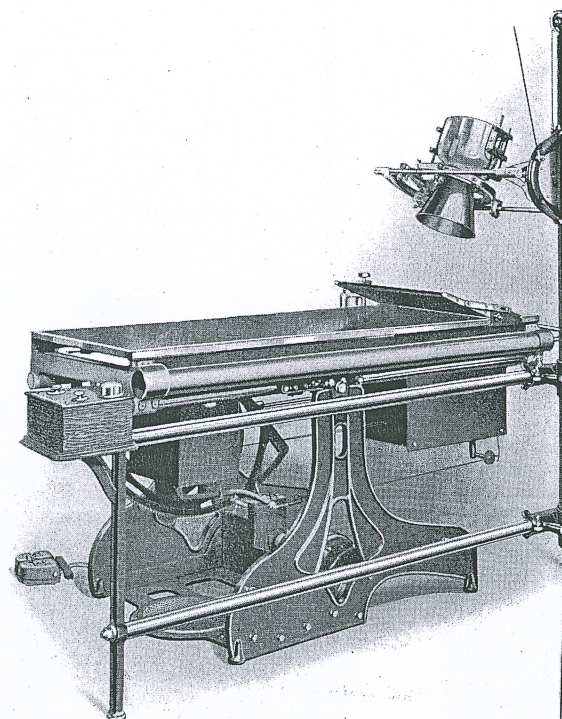
U. S. Patents
December 19, 1911; April 22, 1913; February 29, 1916;
August 7, 1917. Foreign Patents.
Other Patents Pending.

Cat. No. 2087

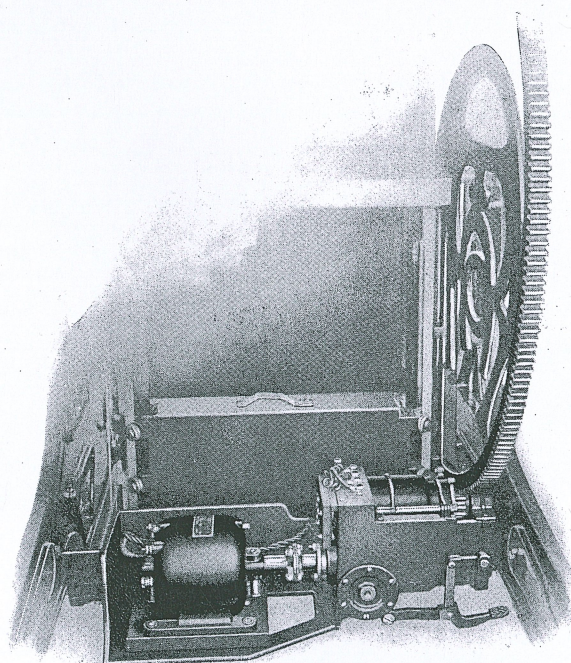
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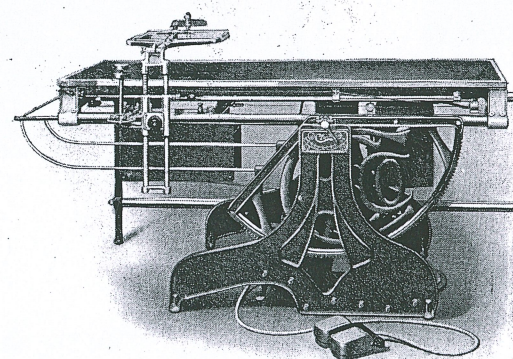
CLINIX IN VERTICAL POSITION



CLINIX IN HORIZONTAL POSITION
Rear view showing Transformer and Connections



CLINIX MOTOR DRIVE AND TRANSMISSION



CLINIX IN HORIZONTAL POSITION
Operating Side

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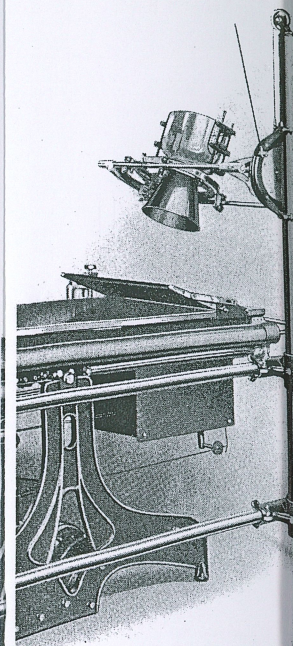
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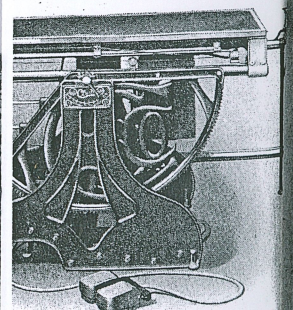
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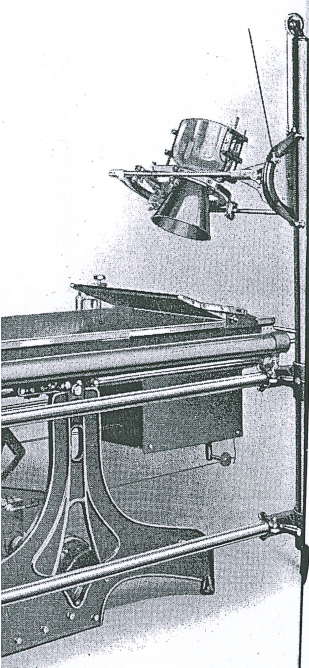
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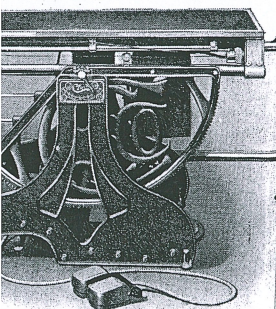
HORIZONTAL POSITION
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HORIZONTAL POSITION
Operating Side



HORIZONTAL POSITION
Transformer and Connections



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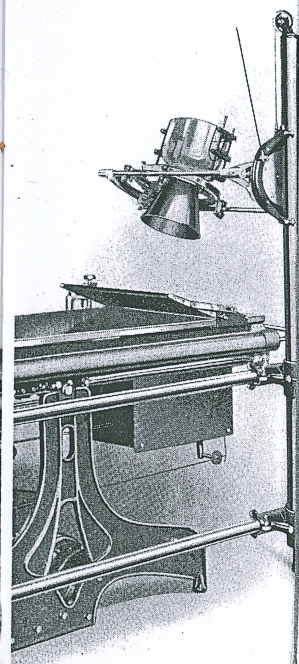
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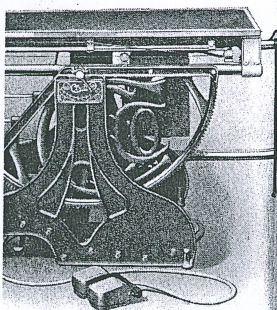
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HORIZONTAL POSITION
Transformer and Connections



HORIZONTAL POSITION
Operating Side

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Clinix

X-Ray Plant

**Vertical - Horizontal - Angular - Stereo Radiography
Fluoroscopy and Orthodiagraphy—Motor Driven
Self-Excited—1 to 30 Milliampères—2 to 5-Inch Gap**

The Clinix unit is the latest development of the Tube Tilt Table. Both are original inventions of Mr. Charles E. Campbell. They have been pronounced by leading Roentgenologists as the greatest attainment in the development of X-ray apparatus and are rapidly revolutionizing X-ray technique.

The Clinix is an X-ray plant, all but the illuminators and dark room. It is a Self Excited, Motor Driven, Stereo Tube Tilt Table with a Combination Screen and Cassette Holder by which radiography as well as fluoroscopy can be done with the tube under the table. The transformer and controls are attached to and form part of the table, thus eliminating the unsightly, annoying and dangerous overhead trolley lines and high tension switch.

The patient when once placed on the Clinix remains there until a complete X-ray examination has been made in the Horizontal, Angular, Trendelenburg and Vertical positions, including fluoroscopy, radiography and orthodiagraphy.

The motor drive is of indescribable value in fluoroscopic examination of the gastrointestinal tract, in accordance with the latest technique for diagnosis of adhesions, the patient being slowly tipped from the vertical to the horizontal and Trendelenburg positions while the operator has his hands free and both the operator and patient are relieved of violent physical exertion.

The transformer attached underneath eliminates the overhead trolley and makes head of the Clinix table accessible.

The Clinix combines in one compact, convenient piece of apparatus of handsome design all the advantages of more than a score of separate pieces of cumbersome and expensive apparatus.

To relocate or rearrange the apparatus of the X-ray laboratory, just move the Clinix, that's all.

The saving in plates and films alone, by accurate localization with fluoroscopic screen before making radiograph, thus allowing use of the smallest plates or films, would pay a fair return on the investment in entire outfit.

In connection with Eastman Dupli-Tized films and double intensifying screen will do all kinds of radiography.

SPECIFICATIONS.

Dimensions (overall). Length 6' 8"—Width 32" (add 3" for stand track), Height 36" to table top.

Construction. Entirely of metal except where electrical insulation is needed; a wood top, head and foot boards.

Top. Wood veneer, of careful selection, highest grade and finish. Tested by X-ray to insure a clear examination field. Opens on piano hinge for accessibility of under mechanism.

Examination Field. Extraordinarily large. Size, length 44 inches, width 22 inches. Enough for examination of head to pelvis and shoulder to shoulder without moving patient.

Tube Carriage. Arranged for Coolidge Radiator Bedside Tube (10 or 30 Milliampere) and black Lead Glass Protective Shield enclosed in Bakelite insulation. Mounted on ball bearings. Counterweight runs on ball bearings inside steel tubing on rear side of table. This construction, together with elimination of the heretofore necessary heavy sheet lead covered tube box, makes a wonderfully light weight and wide range tube carriage which moves at the slightest touch.

Stereo Shift. Locks are provided for stereo shift of tube carriage in both directions so that stereo radiographs may be made with the table tube.

Diaphragms. Lead covered, opening enough to cover a 14" x 17" screen or plate at a target distance of 21½ inches, adjustable independently or together to horizontal, vertical or square opening.

Filter. Groove under diaphragm opening for insertion of aluminum or other filtering material.

Automatic Plate Changer. For stereo-radiographs with tube above or in front of table. Accommodates up to 14" x 17" plates in either direction. Operates with table in

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either horizontal or vertical positions. Provided with air valve speed adjustment which requires no special adjustment for changing from horizontal to vertical shift. Quickly removable from end of table. A lead field cover is provided for insertion at upper end of table when this plate changer is used and can be put in place while patient is on table. Lower end of table is protected by a permanent sheet lead field cover attached to the iron frame.

Fluoroscopic Screen and Cassette Holder. A combination holder of aluminum with a fluoroscopic screen size 11" x 14" protected by lead glass, on the other side of which a Cassette size 11" x 14" may be quickly attached. Swivels so that plate or film may be protected from X-ray by the lead glass. Holder can be quickly changed so that the fourteen-inch dimension of screen or plate may be used laterally or longitudinally. Adjustable to any distance between 15 inches and 31 inches from target of tube to screen or plate. May be locked to maintain position irrespective of angle of table. Detachable, or may be swung and locked away from table top. Has universal movement so that screen may be tilted at any angle desired, with adjustable friction to maintain position.

Cassettes. Two 17" x 17" aluminum cassettes graduated to adapt to smaller plates. Inserted from side of table while in horizontal, angular or vertical position.

Head and Foot Boards. A head board and foot board are both provided as regular equipment, exactly alike in construction and interchangeable. Adjustable as to distance from head or foot of table. Also adjustable as to angle with relation to surface of table so that either may be used as a seat, stand, shoulder or head rest. May be tilted as a sinus block or at other angles for support of various parts of the body. Quickly adjusted and strong enough to support entire weight of a heavy patient.

Turn Table. Built as a part of the frame, operates on steel ball bearings and so constructed that patient may be easily rotated during fluoroscopic examination in the vertical position.

Graduations. No piece of X-ray apparatus was ever more thoroughly worked out and perfected in the details for convenience of the operator than the Clinix, as is evidenced in part by the graduations of each and every part where desirable to know angle or distance as follows:—Angle of table by degrees from Trendelenburg to vertical,—distance of target to screen in inches,—longitudinal travel of tube in inches,—lateral travel of tube in inches,—opening of diaphragms to cover plates or films of different sizes at various distances.

Luminous Indicators. To facilitate operation in the dark the handles which control movement of screen, diaphragms, and filament regulator are provided with luminous dials. The first five milliamperes indications of milliammeters are also luminous.

Motor Drive. Reversible motor of the repulsion type in connection with a transmission, similar to that used in an automobile, geared to a large segment gear. Operates table with patient, up or down by pressure on foot switch. Limit switches stop the motor automatically at the extreme Trendelenburg and vertical positions. A pedal for foot release of motor transmission enables manual adjustment of angle of table if quicker adjustment is needed than motor provides (maximum travel is accomplished by motor in 70 seconds). Automatically locks when pedal is released.

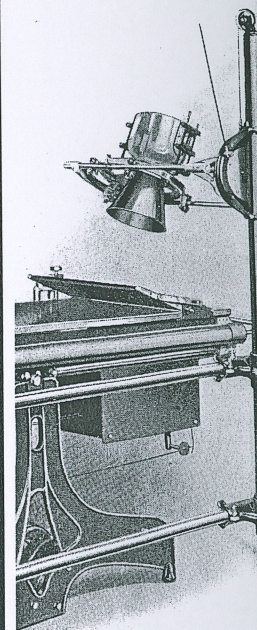
Counter Balance. Table top is so well balanced by distribution of the weight of transformer and by travelling counterweight that it may be tilted by one finger.

Guard Rail. Operating side and head of table are provided with a guard rail to prevent accidental contact with tube connections. Rear side of table is protected by tracks for tube stand and lower end by distance and the fact that secondary terminals are mounted on side of transformer facing toward head of table.

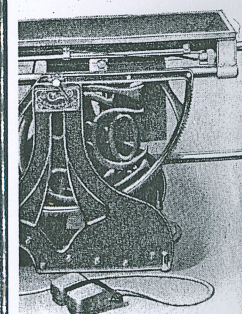
Transformer (High Tension). Secondary 65,000 volts. Closed core, non-fluid insulation, hardwood locked corner case. Sufficient capacity to deliver 1 to 30 milliamperes to X-ray tube with 2" to 5" spark gap.

Transformer (Filament). In same case with high tension transformer.

Controls. Control Case attached to end of table, provided with—auto transformer, voltmeter, milliammeter, auto transformer switch (adjusts line voltage to that for which apparatus is made) main switch, double throw tube switch and potential compensator switch (provides 3 different current changes and simultaneously maintains voltage or penetrative value of the X-ray). The high tension transformer attached to table is provided with a milliammeter and a filament regulator conveniently visible and operable from front of table independent of auto-transformer control case.



HORIZONTAL POSITION
former and Connections



HORIZONTAL POSITION
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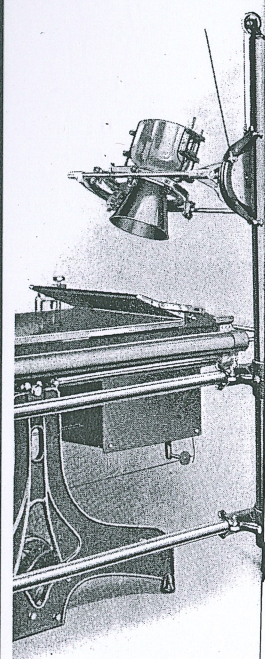
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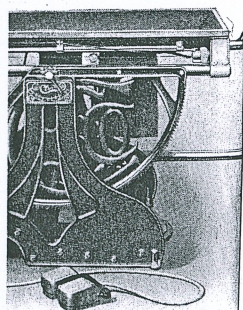
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HORIZONTAL POSITION
Transformer and Connections



HORIZONTAL POSITION
Facing Side



Main switch is operated by a pull cord extending entire length of table so that current may be turned on or off at any position, during examination.

Reels. Self-winding. Connect from transformer secondary terminals direct to X-ray tube. Take the place of overhead trolley lines with their attendant inconvenience and danger.

Foot Switches. Positive, quick-action, prevents arcing and burning of contacts.

Current Required. Operates on alternating current of 100 to 120 volts, 50 to 60 cycle, 6 to 35 amperes, according to current used in tube. Also on direct current by addition of a rotary converter and transformer which may be installed in another room. To operate tube with ten milliamperes requires a one kilowatt rotary converter. Thirty milliamperes requires a four kilowatt converter.

Finish. The finish of frame and top is mahogany. Other parts, polished aluminum and nickel plate.

Tube Stand No. 6. For radiography and therapy with tube above table. (When using tube in stand a separate high tension transformer must be used.) The No. 6 Tube Stand possesses the following exclusive features in addition to all the usual advantages. Entirely controlled from operating side of table by a single lock without reaching over. Overhang 26 inches, allows radiography of either shoulder without moving patient. Friction disc holds tube safely at any angle. Stereo shift and tilt at any point of the circumference. Slight underhang. Automatic safety lock in case cable breaks. High grade ball bearings throughout. The best of machine work. Furnished with lead glass tube shield and diaphragm, complete, ready to attach to tracks of Clinix table.

Extra High Tension Transformer for Tube Stand, 1 to 30 milliamperes, 3" to 5" gap, with attachments for fastening to No. 6 Tube Stand, to operate tube in stand. Travels with stand. Equipped with high-tension terminals, cord reels, filament regulator and connections to Control Case. Operated by same control which operates the table tube. Double throw switch on Control Case makes it impossible to accidentally turn current on both tubes at same time. (Sold only for use with "Clinix" Table.)

Tube. Self-rectifying, Coolidge Radiator Bedside Type, ten or thirty milliampere.

Patents. This apparatus is protected by United States patents, issued Dec. 19, 1911, April 22, 1912, Feb. 29, 1916 and Aug. 7, 1917. Also by foreign patents. Other patents pending.

PRICES

Campbell Clinix Tube Tilt Table with terminals at upper end arranged to excite tube under table from an interrupter-less or other outside transformer—with Automatic Plate Changer, 11 x 14 Fluoroscopic Screen and Holder, 2—17 x 17 Cassettes, Head and Foot Boards, Cord Reels, etc., boxed ready for shipment. F. O. B. Detroit 2095

Motor Drive and Foot Switches (Cat. 2108) 2094

High Tension Transformer attached under table (Cat. 2111, \$450) with Control Case (Cat. 2112, \$100) 2086

Number 6 Tube Stand (Cat. 1013) 2087

Extra High Tension Transformer for Tube Stand with mountings (Cat. 2093) 2109

Two Coolidge Radiator X-ray Tubes (Cat. 1270, \$125 each) 2110

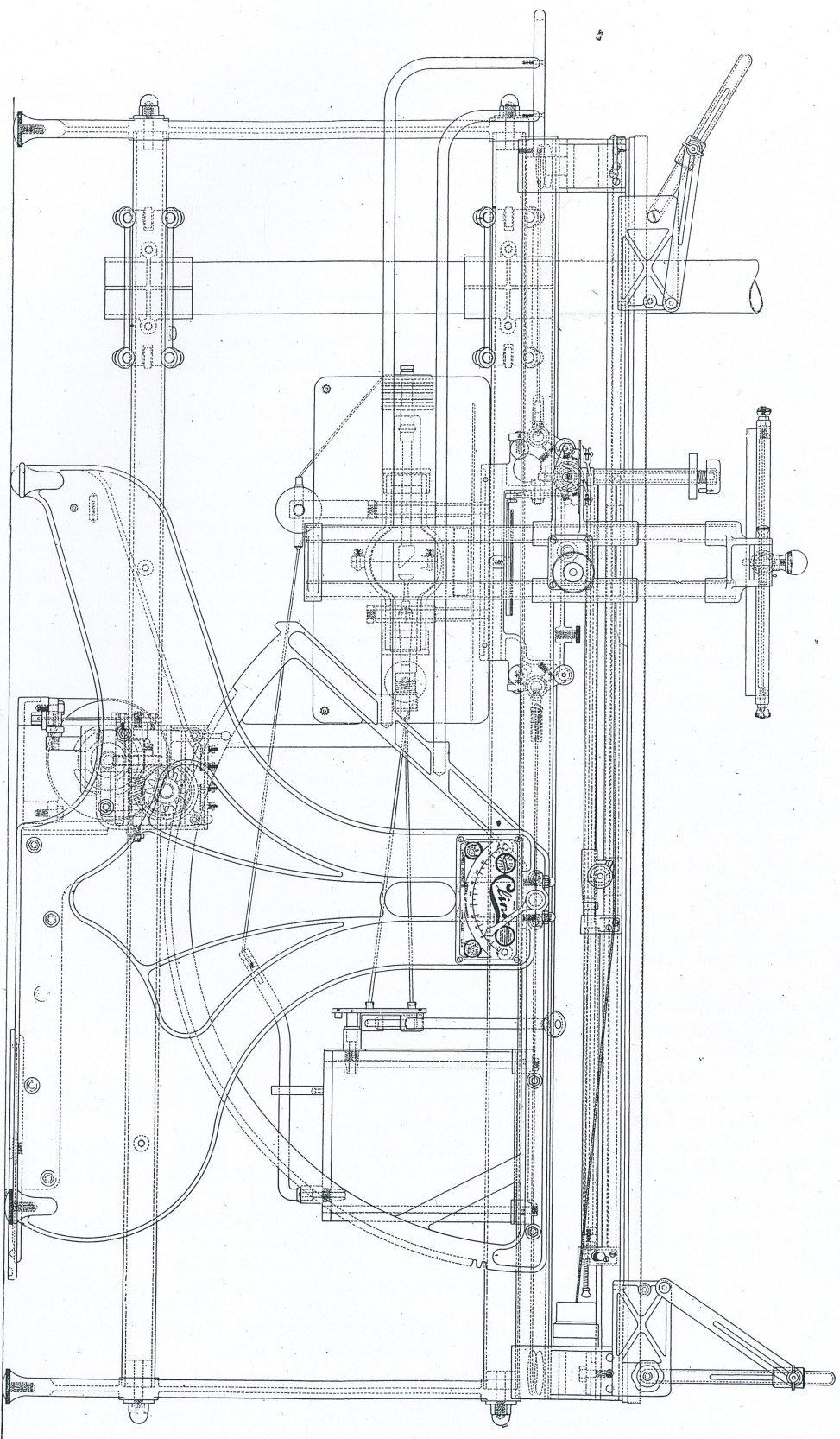
Complete Clinix X-ray Plant (Catalog No. 2110) Code word Clinix 2110

Catalog Number Complete Assembly	PRICE	
	Per Item	Total Complete Assembly
2095	\$1550.00	\$1550.00
2094	100.00	1650.00
2086	550.00	2200.00
2087	300.00	2500.00
2109	450.00	2950.00
2110	250.00	3200.00
2110	\$3200.00	\$3200.00

NOTE:—This latter combination leaves nothing to be desired except the dark room equipment, illuminators and a few small accessories.

If supply is NOT alternating current of 100 to 120 Volt, 50 to 60 Cycle, one of the following must be used. May be installed in separate room or in basement if desired.

Cat. No. 1562 Rotary Converter and Transformer for Direct Current, (10 milliamperes in Tube) 110 Volt \$225.00
Cat. No. 2115 Rotary Converter and Transformer for Direct Current, (10 milliamperes in Tube) 220 Volt 275.00
Cat. No. 2113 Rotary Converter and Transformer for Direct Current, 4 Kilowatt (30 milliamperes in Tube) 110 or 220 Volt 525.00
Cat. No. 2114 Step-Down Transformer 220 Volt or 440 Volt, 60 Cycle 75.00



CAMPBELL "CLINIX" X-RAY PLANT

Line drawing, illustrating in detail, mechanical construction.